

## NOTES

1. PRIMARY PROJECT HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 1, NAD83 (CORS96). IN SURVEY FEET BASED ON A FULLY CONstrained STATIC GPS NETWORK HOLDING PUBLISHED NAD83 DATUM. 2002.20 EPOCH VALUES OF NGS CORS STATION: "GUSTAVUS12007 CORS AP" (GUS1 - PD46225), "JUNEAU WAS 1 CORS AP" (JUN1 - PD47367) AND CAPENCAKE12007 CORS AP" (AB43 - PD4431) ARE USED.
- LOCAL PROJECT HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 1, NAD83, IN SURVEY FEET HOLDING DOMED CB "PH5 2007" AS N 2,245,958.53, E 1,828,826.15.
2. VERTICAL CONTROL IS MEAN LOWER LOW WATER (MLLW=0) BASED ON THE NOAA/NOS TIDAL BENCH MAP "945 2011 PELCAN HARBOR, ALASKA" PUBLISHED 08/19/2010. THIS TIDAL DATUM IS BENCHMARK 1183-2001 TIDAL EPOCH AND IS REFERENCED BY HOLDING NOAA/NOS TIDAL BENCH MARK "2011 K12009" (VM19574) AS 19.74.
3. VERTICAL TIES TO THE NATIONAL SPATIAL REFERENCE SYSTEM ARE BASED ON PUBLISHED NAVD88 ELEVATIONS HOLDING DOMED CB "PH5 2007" (PD8DX9) AS 19.18.
4. SOUNDINGS ARE IN SURVEY FEET AND ARE MINUS UNLESS OTHERWISE INDICATED.
5. BATHYMETRY WAS COLLECTED JULY 3-5, 2015. SOUNDINGS WERE COLLECTED USING AN R230Nc22 MULTIBeam ECHOSOUNDER OPERATING AT 200 KHz, SOUND VELOCITY THROUGH THE WATER COLUMN WAS DETERMINED WITH AN ECHOTRACKER 2000 AND A JESSIL ORIENTED WATER COLUMN MEASUREMENT WAS MEASURED USING AN APPLIXX POSMV 320 V4 SYSTEM. DATA WAS COLLECTED AND PROCESSED USING QINSY 8.1 SOFTWARE. HORIZONTAL CONTROL WAS SURVEYED USING STATIC AND RTK GNSS EQUIPMENT AND TECHNIQUES. VERTICAL CONTROL WAS SURVEYED USING DIFFERENTIAL LEVELING TECHNIQUES.
6. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY.
7. MAP SOUNDINGS ARE BINNED AT 24 FEET AND ARE SHOAL-BIASED. CONTOURS ARE BASED ON 12 FEET BINNED SHOAL-BIASED SOUNDINGS. VOLUME SOUNDINGS ARE BINNED AT 3 FEET AND ARE MEAN VALUE SOUNDINGS.

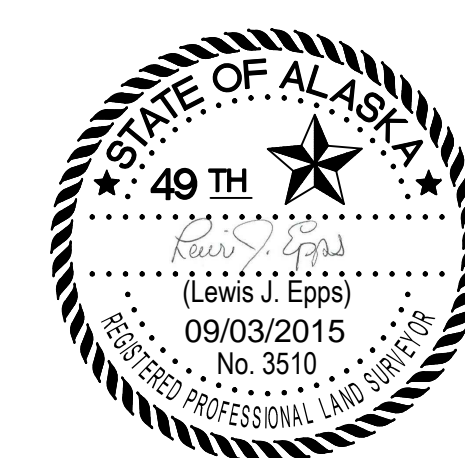
SURVEY CONTROL DATA				
STATION	NORTHING	EASTING	MLLW	DESCRIPTION
PH-1 1999	2,246,305.07	2,189,097.34	19.01	3.25" DOMED TERRA SURVEYS SBC
PH-2 1999	2,247,120.08	2,188,112.75	48.57	3.25" DOMED TERRA SURVEYS SBC
PH-4 2007	2,246,482.49	2,188,974.50	7.98	3.25" DOMED TERRASOND SBC
PH-5 2007	2,245,958.53	2,188,826.15	19.52	3.25" DOMED TERRASOND SBC
SAND 1917	2,243,868.24	2,189,674.02	18.10	3.5" DOMED USCGS SBC
TN-3 1960	2,245,617.07	2,188,546.59	18.69	3" FLAT SBC

NAVIGATION AIDS			
USCG NO.	NORTHING	EASTING	DESCRIPTION
24315	2,245,388	2,188,183	PELICAN ENTRANCE LIGHT


PROJECT LIMITS		
CORNER#	NORTHING	EASTING
1	2,245,730.53	2,188,435.95
2	2,246,061.55	2,188,685.92
3	2,246,650.55	2,188,629.87

PROJECT LIMITS		
CORNER#	NORTHING	EASTING
4	2,246,636.34	2,188,480.54
5	2,245,820.92	2,188,316.25

VOLUME COMPUTATIONS		
AREA A: ENTRANCE CHANNEL	MLLW=0	CU. YD.
AVAILABLE TO PROJECT DEPTH (PD)	-12.0	91
AVAILABLE TO MAX PAY DEPTH (MP)	-13.0	250
AVAILABLE SIDE SLOPES (SS) AT 3:1 (H:V) & 25' WIDE	VARIES	210
TOTAL MAXIMUM VOLUME AVAILABLE (MP + SS)		460



THIS HYDROGRAPHIC SURVEY WAS COMPLETED  
UNDER THE OVERSIGHT OF AN ACSM/THOSOA  
CERTIFIED HYDROGRAPHER

  
David R. Neff C.H. (275)

David R. Neff C.H. (275)

[illegible]

PELICAN, ALASKA  
 PELICAN HARBOR  
 PROJECT CONDITION SURVEY  
 JULY 01-06, 2015

SHEET  
IDENTIFICATION

1-PEL-92-07-05

Sheet 2 of 2